



EUCLID CHEMICAL

EUCON HYDRAPEL 2.5

PLASTICIZING/EFFLORESCENCE CONTROLLING/ WATER-REPELLANT ADMIXTURE

DESCRIPTION

EUCON HYDRAPEL 2.5 is a multi-functional, high-performance admixture developed for concrete masonry and other applications. This highly efficient, silicone polymer-based admixture greatly increases mix water tolerance by reducing concrete stickiness. When added to the mix, HYDRAPEL 2.5 quickly disperses and chemically bonds to the concrete upon curing. As a result, concrete performance in general and freeze-thaw durability in particular is vastly improved. HYDRAPEL 2.5 is also a qualified BLOCKTITE SYSTEM component for water repellent-specified masonry construction.

PRIMARY APPLICATIONS

- Pavers and patio products
- Segmental retaining wall units
- Concrete block and brick
- Mfd. stone veneer, decorative precast
- Concrete roof tiles
- Cast stone

FEATURES/BENEFITS

- Uniquely increases water tolerance, cement efficiency, production rate, & color vibrancy
- Markedly improved material flow maximizes density, strength, & product consistency
- Increased density reduces absorption, efflorescence potential, & freeze-thaw degradation
- Superior water repellency protects masonry from wind-driven rain, adds color integrity
- Slower wetting and quicker drying of concrete products inhibits growth of mold and mildew

TECHNICAL INFORMATION

Appearance White, free flowing liquid.

Specific Gravity . . 0.98

Freezing Point . . 32°F (0°C)

EUCON HYDRAPEL 2.5 performs optimally at wetter-than normal (dry-cast) concrete consistencies, particularly where maximized density, low absorption, and freeze-thaw durability are targeted.

PACKAGING

EUCON HYDRAPEL 2.5 is available in 275 gal (1041 L) totes, 55 gal (208 L) drums and 5 gal (18.9 L) pails.

SHELF LIFE

12 months in original, unopened container.

SPECIFICATIONS/COMPLIANCES

EUCON HYDRAPEL 2.5/BLOCKTITE MORTAR ADMIXTURE achieves excellent (E-rated) results when tested in accordance with ASTM E 514, "Standard Test Method for Water Penetration and Leakage Through Masonry" (extended to 72 hours) with 0% dampness on interior walls.

DIRECTIONS FOR USE

Dosage Rate: EUCON HYDRAPEL 2.5 is recommended for use at a rate of 1 to 8 oz/100 lbs (65 to 522 mL /100 kg) of cementitious material. Add EUCON HYDRAPEL 2.5 after cement has been fully wetted and the majority of total mix water has been introduced - then mix adequately (45sec.to 2min.- depending on mixer) to fully disperse.

SPECIALTY PLASTICIZER:

Use at 1 to 1.5 oz/100 lbs (65 to 98 mL/100 kg) of cementitious material to speed production rate, improve texture and consistency, and to provide differentiated properties in standard block production.

EFFLORESCENCE CONTROL & FREEZE-THAW DURABILITY:

EUCON HYDRAPEL 2.5 provides efflorescence control and freeze-thaw durability when used at a dosage rate of 2 to 3 oz/100 lbs (130 to 196 mL per 100kg) of cementitious material.

WATER REPELLENCY:

Normal Weight Block - 2 to 4 oz/100 lbs (130 to 260 mL /100 kg) of cementitious material.

Medium Weight Block - 3 to 5 oz /100 lbs (260 to 326 mL /100 kg) of cementitious material.

Lightweight Block - 4 to 8 oz/100 lbs (391 to 522 mL/100 kg) of cementitious material.

IMPORTANT: The optimal dosage of EUCON HYDRAPEL 2.5 is determined as part of the Euclid Chemical BLOCKTITE CERTIFICATION PROGRAM. For test methods used to evaluate such performance, please refer to NCMA TEK 19-7, "Characteristics of Concrete Masonry Units with Integral Water Repellent."

NOTE: EUCON HYDRAPEL 2.5 is an optional component of the BLOCKTITE SYSTEM for specified water repellency. This 2-part system also requires the use of BLOCKTITE MORTAR ADMIXTURE to resist water penetration through the mortar joints. Design and construction details must observe applicable design codes and include the recommendations of NCMA TEK 10-1A: Crack Control in Concrete Masonry Walls; TEK 19-1: Water Repellents for Concrete Masonry Walls; TEK 19-2A: Design for Dry Single-Wythe Concrete Masonry Walls; TEK 19-4A: Flashing Strategies for Concrete Masonry Walls; TEK 19-5A: Flashing Details for Concrete Masonry Walls

Specified water-repellent projects must include BLOCKTITE MORTAR ADMIXTURE in the associated masonry mortar per data sheet and label instructions. Failure to do so will compromise the performance of the BLOCKTITE SYSTEM and is in violation of its guide specification. Incorporation of these products will not compensate for flaws in building design, inadequate production procedures, or improper construction practices.

Only concave or "V" tooled joints should be allowed for water repellent masonry construction incorporating the EUCON BLOCKTITE SYSTEM. These recommendations are supported by both the National Concrete Masonry Association (NCMA) and the Brick Institute of America (BIA). For added protection, The Euclid Chemical Company recommends an exterior application of CHEMSTOP WB Heavy Duty penetrating sealer. Consult your Euclid Chemical representative for additional information on this product.

PRECAUTIONS/LIMITATIONS

- EUCON HYDRAPEL 2.5 requires storage between 40°F (4°C) and 95°F (35°C); protect from extreme heat (direct sunlight) and freezing temperatures. EUCON HYDRAPEL 2.5 is not usable after it freezes.
- EUCON HYDRAPEL 2.5 is intended for use with proper mix designs/production methods.
- During construction, excess mortar should be promptly removed; clean residue using procedures outlined in NCMA TEK 8-2: Removal of Stains from Concrete Masonry
- EUCON HYDRAPEL 2.5 will not compensate for flaws in building design, improper production procedures, or improper construction methods. The Euclid Chemical Company is not responsible for inappropriate use of EUCON HYDRAPEL 2.5.
- For added protection, use an exterior application of CHEMSTOP WB Heavy Duty penetrating sealer.
- BLOCKTITE SYSTEM SPECIFICATIONS can be found in ARCOM MasterSpec Section 042200
- In all cases, consult the Material Safety Data Sheet before use.

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WARRANTY: The Euclid Chemical Company ("Euclid") solely and expressly warrants that its products shall be free from defects in materials and workmanship for one (1) year from the date of purchase. Unless authorized in writing by an officer of Euclid, no other representations or statements made by Euclid or its representatives, in writing or orally, shall alter this warranty. EUCLID MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME. If any Euclid product fails to conform with this warranty, Euclid will replace the product at no cost to Buyer. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made within one (1) year from the date of the claimed breach. Euclid does not authorize anyone on its behalf to make any written or oral statements which in any way alter Euclid's installation information or instructions in its product literature or on its packaging labels. Any installation of Euclid products which fails to conform with such installation information or instructions shall void this warranty. Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer shall be solely responsible for determining the suitability of Euclid's products for the Buyer's intended purposes.